### Keynote

**Dr. Laxmikant (Sanjay) Kale**  
Parallel Programming Laboratory  
Computer Science Department  
University of Illinois, Urbana Champaign

### Invited Speakers

**Petascale Challenge Award**  
Zhao Zhang  
PhD Candidate  
Distributed Systems Laboratory  
Computer Science Department  
University of Chicago

**Biggest Impact Award**  
Dr. Alexandru Iosup  
Assistant Professor  
Parallel and Distributed Systems Group  
Computer Science Department  
University of Chicago

**Cloud Challenge Award**  
Dr. Judy Qiu  
Assistant Professor  
School of Informatics and Computing  
Indiana University

### Session I -- Middleware (Chair Reagan Moore, UNC)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
<th>Affiliation</th>
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<tbody>
<tr>
<td>10:30AM</td>
<td>Invited Talk -- Petascale Challenge Award</td>
<td>Zhao Zhang</td>
<td>UChicago</td>
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<tr>
<td>11:00AM</td>
<td>A Scalable Master-Worker Architecture for PaaS Clouds</td>
<td>Vibhor Aggarwal, Shubhashis Sengupta, Yibhu Saunyana Sharma, Aravindan Santharam</td>
<td>Accenture</td>
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<tr>
<td>11:30AM</td>
<td>HOG:Distributed Hadoop MapReduce on the Grid</td>
<td>Chen He, Derek Weitzel, David Swanson, Yang Lu</td>
<td>UNL</td>
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### Session II -- MapReduce (Chair Daniel S. Katz, NSF)

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<tr>
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<tbody>
<tr>
<td>1:30PM</td>
<td>Invited Talk -- Biggest Impact Award</td>
<td>Alexandru Iosup</td>
<td>TUDelft</td>
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<tr>
<td>2:00PM</td>
<td>Resource Management for Dynamic MapReduce Clusters in Multicluster Systems</td>
<td>Bogdan Ghit, Nezh Yigitbasi, Dick Epema</td>
<td>TUDelft</td>
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<tr>
<td>2:30PM</td>
<td>A Hybrid Scheduling Approach for Scalable Heterogeneous Hadoop Systems</td>
<td>Aysan Rasooli, Douglas Down</td>
<td>McMaster</td>
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### Session III -- Applications (Chair Yong Chen, TTU)

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<th>Time</th>
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<tbody>
<tr>
<td>3:30PM</td>
<td>Invited Talk -- Cloud Challenge Award</td>
<td>Judy Qiu</td>
<td>IndianaU</td>
</tr>
<tr>
<td>4:00PM</td>
<td>Community Accessible Datastore of High-Throughput Calculations: Experiences from the Materials Project</td>
<td>Dan Gunter, Shreyas Cholia, Anubhav Jain, Michael Kocher, Kristin Persson, Lavanya Ramakrishnan, Shyue Ping Ong, Gerbrand Ceder</td>
<td>LBNL, MIT</td>
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<tr>
<td>4:30PM</td>
<td>A Comparative Study of Data Processing Approaches for Text Processing Workflows</td>
<td>Jing Chen, Kenjiro Taura</td>
<td>UTokyo</td>
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<tr>
<td>5:00PM</td>
<td>Software-as-a-Service: The iPlant Foundation API</td>
<td>Ron Dooley, Matthew Vaughn, Dan Stanzione, Steve Terry, Edwin Skidmore</td>
<td>TACC, UArizona</td>
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### Best Paper Award

**Attendee Prize Giveaway -- Win a Kindle Fire HD Tablet**

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**Organizers**

- **Ioan Raicu**  
  DataSys Laboratory  
  Computer Science Department  
  Illinois Institute of Technology  
  Math and Computer Science Div.  
  Argonne National Laboratory

- **Yong Zhao**  
  School of Computer Science and Engineering  
  University of Electronic Science and Technology of China

- **Ian T. Foster**  
  Distributed Systems Laboratory  
  Computer Science Department  
  Computation Institute  
  University of Chicago  
  Math and Computer Science Div.  
  Argonne National Laboratory

- **Justin Wozniak**  
  Computation Institute  
  University of Chicago  
  Math and Computer Science Div.  
  Argonne National Laboratory